

[illegible]

A display apparatus includes an image source that scans about two axes. To offset motion about a first of the axes during sweeps about the second axis, the apparatus includes a structure to produce offsetting motion about the first axis at a scanning rate equal to the twice-scanning rate about the second axis. The offsetting scan can be a ramp or other motion. In one embodiment, the offsetting motion is a resonant sinusoid. The offsetting motion may be produced by an auxiliary scanner such as a mechanical scanner, a piezoelectric scanner, a MEMS scanner or other scanner. Because the offsetting motion is very small, the auxiliary scanner can function with a very small scan angle.